Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING Accredited by NBA \& NAAC WITH 'A' GRADE Koneripalli, HOSUR - 635117.

## Department of Aeronautical Engineering

## Regulation 2021

| S.NO | COURSE <br> NAME | COURSE OUT COMES |  |  |
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|  |  | C107.5 | Utilize python packages in developing software applications |
| :---: | :---: | :---: | :---: |
| 8 |  | C108.1 | Analyze the modulus of elasticity of different types of materials |
|  |  | C108.2 | Demonstrate the concepts of laser diffraction and fiber optics |
|  |  | C108.3 | Apply interference pattern to determine the thickness of thin material |
|  |  | C108.4 | Determine the velocity of ultrasonic waves in liquid |
|  |  | C108.5 | Apply instrumentation method to determine the strength of the given solution |
|  |  | C108.6 | Apply volumetric analysis method to estimate hardness, alkalinity, chloride, copper content present in a given solution |
| 9 |  | C109.1 | Listen and respond appropriately |
|  |  | C109.2 | Describe personal experiences, requirements and abilities |
|  |  | C109.3 | Make an effective presentation on products and processes |
|  |  | C109.4 | Communicate with appropriate communicative strategies. |
|  |  | C109.5 | Participate in group discussion or debates |
| 10 |  | C110.1 | Compare and Contrast products and ideas in technical texts. |
|  |  | C110.2 | Identify cause and effect in longer text for technical communication |
|  |  | C110.3 | Analyze problems in order to ensue solutions in oral and written professional communication |
|  |  | C110.4 | Make oral and written Report of Events and Technical process |
|  |  | C110.5 | Create job applications and resume |
| 11 |  | C111.1 | Apply the concept of testing of hypothesis for small and large samples in real life problems |
|  |  | C111.2 | Apply the basic concepts of classifications of design of experiments in the field of agriculture |
|  |  | C111.3 | Appreciate the numerical of techniques of interpolation in various intervals and apply the numerical techniques of differentiation and integration for engineering problems |
|  |  | C111.4 | Comprehend various techniques and solving first and second order ordinary differential equation |


|  |  | C111.5 | Solve the partial and ordinary differential equation with initial and boundary condition by using certain technique with engineering applications |
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| 12 | sọ̣sKЧd pə!̣ddV - ZI I D | C112.1 | Explain the theories of electrical conductivity and thermal conduction in solids, basic quantum mechanics and energy bands |
|  |  | C112.2 | Compare the different types of semiconducting materials and their properties based on energy level diagram and its temperature effects |
|  |  | C112.3 | Classify the various types of polarization and summarize the properties of ferroelectric crystals |
|  |  | C112.4 | Illustrate the classification of magnetic materials theory and application of ferromagnetic materials and superconductors |
|  |  | C112.5 | Make use of non-linear optical properties of materials |
| 13 |  | C113.1 | Compute the electric circuit parameters for simple problems |
|  |  | C113.2 | Explain the working principle and applications of electrical machine |
|  |  | C113.3 | Analyze the characteristic of analog electric devices |
|  |  | C113.4 | Explain the basic concepts of digital electronics |
|  |  | C113.5 | Explain the operating principles of measuring instruments |
| 14 |  | C114.1 | Use Bis Conventions and specifications for engineering drawing |
|  |  | C114.2 | Construct the conic curves, involutes and cycloid |
|  |  | C114.3 | Solve practical problems involving projection of lines |
|  |  | C114.4 | Draw the orthographic, isometric and perspective projections of simple solids |
|  |  | C114.5 | Draw the development of simple solids |
| 15 |  | C115.1 | Explain about the weaving and ceramic technology of Tamil people |
|  |  | C115.2 | Explain the traditional design and construction of Tamil people |
|  |  | C115.3 | Explain the manufacturing technology practiced by tamils |
|  |  | C115.4 | Comprehend and brief about the tamil agriculture and |



